

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: "Sandy, W5TVW" <70401.134@CompuServe.COM>
Subject: Re: ..ripple? Heater strings
Message-ID: <960605045850_70401.134_IHD54-2@CompuServe.COM>

Hank,

I remember from wiring up ARC-5 receiver in series and making them "AC-DC"! Plugged a 50L6 in the 12A6 socket and changed the cathode bias resistor and used a standard AA5 output transformer because they were cheap! (Going back to grammar school days now!) Anyway, I kept the 50L6 heater first in the 'string' and the detector/BFO (12SR7) last in the 'string'. Used to use a 50 ma selenium rectifier in those days and a dual 30 mf @ 150 volt AA5 filter cap. They were cheap too then! A 50K control with a switch and a single toggle switch for BFO completed the project. You learned QUICK to mark/check polarity of your AC sockets you used it in or you had spitzen=sparken or one helluva jolt if you touched the chassis! (OSHA wouldn't approve of that now!) Anyway, that used to be my "minimum" super cheapo way to get a BC-454 or 455 going. Can't remember HOW many I did like that for guys. ALWAYS warning then about plug polarity. None of them got electrocuted! Couldn't do that today, too many hungry lawyers out there! (I guess you could if you wrote a disclaimer-hold harmless affa-davit notorized officially?)
73,
Sandy, W5TVW
Boat Anchors collected, restored, modified, traded and used!

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: "Roberta J. Barmore" <rbarmore@indy.net>
Subject: 2 interesting rigs in the Moore book (non commercial)
Message-ID: <Pine.SUN.3.91.960605131231.305B-100000@indy2>

Hi!

Looking through the Moore book, I've found a couple of interesting things. On Page 96, there's a photo of the McMurdo Silver "Jones All-Band Exciter." the schematic of which shows up in the '35 "Radio

Amateur Newcomer." It's interesting-looking, especially since I'm slowly accumulating parts to build one! Moore gives the tube line-up for the screen modulator, for which I don't have a schematic...but (transformer details aside), it sounds straightforward, 6C6/76/P-P 42s.

The other interesting entry is on page 18, the Browning BLEC-5 (no, really), an attractive rack-mounted 25W AM/CW rig with internal eco (er, vfo) and crystal osc. This one was written up in "Radio" in '39 or '40 with no mention of commercial availability. It'd be quite a find and is fairly sophisticated, with regulated low B+ for the eco (and PA screen, I think). Original RF tube line-up is all Raytheon but they're tubes with RCA near-equivalents. Dunno about that eco--it uses an 802/RK-25, driving the 807/RK-39 PA without buffering. Might be a little jumpy!

...Don't miss the *Stancor* AT-1 (1937), or Utah's SX-25 *transmitter,* the latter being just the thing to sit beside your Halli Super Defiant...! :)

Also missed the Hughes-Mitchell "X-EC." With the Signal Shifter (okay, they did promote it as a QRP rig as well as an eco) and the Sonar eco, you'd've thunk the X-EC (based on a Chas. Perrine design) would have merited inclusion.

73,
--Bobbi

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: 75A4 FILTER LEAKAGE FIX
Message-ID: <9606051616.aa23829@pcusa01.ecunet.org>

Drake has a variation of that in their R-4 line of receivers.

They use insulated hookup wire to provide some neutralization around the 1st IF 6 kHz wide roofing filter.

The neutralization is adjusted to put a notch at the image frequency of this filter. This freq is 100 KHz away as the 2nd IF freq is 50 KHz.

-John Sehring (06/05/96 12:57 pm MT @Baker, Montana) wb2eqg

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: "David L. Thompson" <thompson@mindspring.com>
Subject: Ameco AC-1, AC-1T and Micamold
Message-ID: <199606050418.AAA29229@borg.mindspring.com>

I saw a few notes on the Ameco. I am looking at an old Harrison Catalog with Bill's signature dated May 8, 1959. This catalog was given me by SK Mac W2NSA of Spring Lake, NJ. I went to Harrison in 1960 and got my own copy, too.

On page A-254 there is a picture of the Ameco AC-1. No size given but the only difference between the AC-1 and AC-1T is that tubes come with the AC-1T kit. According to another W2 I taked to recently the Ameco deign was purchased from Micamold. The only difference is that Ameco aimed this at Novices so only offered 80 and 40 meter coils. Remember the Micamold was sold 1947-49 and there was no Novice until 1952 so Micamold had coils for 20. The one I have has a homebrew 10 and 15 coil, but it goes bonkers on 10 and must run carefully on 20 and 15 to not go into self-oscillation. Both rigs run 15 to 20 watts. At least two other companies built this same design but since it is so straight forward they did nothing to stop it . Ameco also made a small receiver to go with the AC-1 in the early 60's. Boy..if Stu Meyer W2GHK was still around he could give us a wealth of info as he was involved with Hammarlund, Ameco, and Aerotron. Ameco is still in business. I wonder if this is just the name or does someone there have a history to tell!

Other interesting items in the catalog....Comsophone 35 on page A-230, WRL/Globe gear pp A-232 and 3 (including the Universal modulator I had paired with a DX-35), James Millen stuff on A-245, an Airmaster KW amp (6079/AX9908 tube) on page A-251, and letter with insert pic of lloyd Hammarlund on the back cover. Collins provided a complete color insert!

73, Dave K4JRB

Come to Atlanta for the Hamfestival and the olympics!

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: Tony.Seaton@turner.com
Subject: ARROGANT ADMINISTRATION
Message-ID: <1b5e4eb0@turner.com>

As a relative newcomer to this list I have been somewhat irritated by the condescending attitude of the list administrator toward the list participants.I am now astounded by the arrogance displayed by said administrator to Jim(re:Moore books.)

I bought and received on Monday by Express Mail my copy of the Moore book.I consider the work done by Jim in distributing the books a great service to those of us interested in older radios and I certainly could not have bought the book from a dealer for the same price.

As for the comment on commercial enterprises ,this list itself could be considered just that. When the actual costs of administration are met by subscription fees will I then get a partial refund of my fees as more subscribers sign on? I seriously doubt it.

If this list is to be maintained as a public service to those of us in the amateur community then it should be treated as such and unilateral decisions as to the appropriateness of a particular type of posting should be discussed. If one person is to define whether a posting is appropriate then this is indeed a commercial enterprise and should operate under those rules.

The list administrator owes an apology to Jim and perhaps an explanation as to why his effort in maintaining this list is any less commercial .

Tony Seaton W4KQL

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: pmills@cyberhouse.com (Phil Mills)
Subject: Re: ARROGANT ADMINISTRATION
Message-ID: <199606052202.RAA25976@ns.cyberhouse.com>

Tony, you raise some good points but I think you may have missed the mark a little here. First, we need an administrator, aka Jack, to call an end to some endless and non-BA threads such as Japanese bashing and cat pee (how cat pee qualified as a BA topic I don't quite understand...). In the case of the help with book purchases at less than commercial prices, I think Jack has made an honest mistake in confusing helping the BA community get valuable reference material at a discounted price with a profit making enterprise....whilst unbeknown to him, several other list members...well, you know....And, BTW, I don't mind commercial or commercial-like ads as long as they are really BA related as I think this is a service to those of us who don't have a different hamfest 2 miles away each weekend!

I can say, that if I were running this list as a profit making enterprise, a \$12 subscription would not quite make it.....maybe \$12 a month!

Keep up the good work, Jack. Ask your wife to pull the arrows out of your rear.

thanks,
Phil

> As a relative newcomer to this list I have been somewhat irritated by
> the condescending attitude of the list administrator toward the list

> participants.I am now astounded by the arrogance displayed by said
> administrator to Jim(re:Moore books.)
>
> I bought and received on Monday by Express Mail my copy of the Moore
> book.I consider the work done by Jim in distributing the books a great
> service to those of us interested in older radios and I certainly
> could not have bought the book from a dealer for the same price.
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> be considered just that.When the actual costs of administration are
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> the amateur community then it should be treated as such and unilateral
> decisions as to the appropriateness of a particular type of posting
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> appropriate then this is indeed a commercial enterprise and should
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> explanation as to why his effort is maintaining this list is any less
> commercial .
>
> Tony Seaton W4KQL
>
Phil Mills, AB5TH
pmills@cyberhouse.com
713-992-5762

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: "James C. Garland" <garland@MPS.OHIO-STATE.EDU>
Subject: Re: ARROGANT ADMINISTRATION
Message-ID: <01I5K4I0WBD08WW2T6@MPS.OHIO-STATE.EDU>

> The list administrator owes an apology to Jim and perhaps an
> explanation as to why his effort is maintaining this list is any less
> commercial .
>
> Tony Seaton W4KQL
>

Tony,

I would like to respectfully disagree with your comments. This list

generates a great deal of traffic, and in my opinion it is essential that a tight focus and good discipline be maintained. In my opinion, the list administrator is doing an admirable job in keeping us on track. While his reprimands sometimes seem a bit gruff, I believe they are given in the spirit of a well-meaning drill sergeant who is trying to maintain order under difficult circumstances. As to the "commercial" nature of the list, I receive excellent value for my twelve bucks. Charging "dues" for membership on the list is akin to my local ham club charging dues to its members to defray costs. I am grateful that Jack is willing to donate his time in support of the community.

73,

Jim W8ZR

P.S. I realize that this message is itself a violation of the list protocol. Sorry, Jack, I won't do it again.

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: daniel wright <djw@unlinfo.unl.edu>
Subject: Re: ARROGANT ADMINISTRATION
Message-ID: <9606052259.AA25462@unlinfo.unl.edu>

Jim Garland sez:

>Tony,
>
>I would like to respectfully disagree with your comments.
<snip>
>In my opinion, the list
>administrator is doing an admirable job in keeping us on track.
<snip>
>As to the "commercial" nature of the list, I receive excellent value
>for my twelve bucks.
<snip>
>I am grateful that Jack is willing to donate his time in
>support of the community.

I agree Jim, but please tell me...how is this any different than what Jim Dillon has tried to do? He tried to provide a service to us all, just like Jack. He needed money to defray his costs, just like Jack. His endeavor was NOT COMMERCIAL, JUST LIKE JACK!!!

To Jim Dillon: Thank You very much, sir, for providing me with a way to get both the new Hallicrafters book and the Moore transmitters

book. I appreciate your efforts very much.

73 de Dan -- WA0JRD ..
djw@unlinfo.unl.edu

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: Andy Wallace <wallace@mc.com>
Subject: BA movie spotting, RISING SUN
Message-ID: <9606051200.AA03384@taku>

Well, the movie wasn't four stars despite Sean Connery...but towards the end, after the exotic video lab is gutted, the makeshift lab shows an old scope of some kind (looked tubish) and a Hallicrafters SR-series transceiver. SX-122 style front panel. Could not make out the details, but you see it as the camera pans.

Oh well. The first half of the movie was good. I may have been influenced by the Arturo Fuente Opus X though. <grin>

73,
--Andy
wallace@mc.com

<http://www.zynet.com/~johnb/ka1gtt1.htm>

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: Re: Book Deal Update
Message-ID: <199606051504.KAA14605@dlep1.itg.ti.com>

At 10:53 PM 6/4/96 -0500, you wrote:

>

>Generalized observation: Here on the Left Coast we routinely receive mail (in Alaska!) sent >from LA same day. It now takes 7 days for First Class Mail >to get through the Chicago sorting (and demolition/theft) center.

>...<snip>...

>How did you folks back East ever let things get this bad?

>...<snip>...

>Folks who ordered Transmitters on time should have received theirs Tuesday.

Thanks Jim for dealing with the mess and making the books available. I received Moore's transmitter book Monday! It is indeed a valuable book, although it strikes me that it has somewhat less descriptive info than his receiver book. Perhaps that's because the receiver book is now into its third edition.

FWIW, not all mail service in the contiguous 48 states is bad. Mail service here (Grapevine, TX) has generally been good for the last couple of years, although it was horrid in prior years. I suppose having DFW airport within the city limits is an advantage in this regard for First Class and Priority Mail. Amazingly, the local post office finally figured out how to get mail to the airport. (Local service is another matter though, as it takes four days to get across the street!)

Regards,
Bill Sorsby, N5BU

bill.sorsby@dlep1.itg.ti.com
Views expressed herein are no one's fault but mine.

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: Jim Dillon <beadgal@ptialaska.net>
Subject: Book Deal Update: Verbotten
Message-ID: <01BB52B7.70484D60@juneau_22.dialups.ptialaska.net>

Hello folks-

OK, I've had it. As everyone but der ListFuehrer clearly knows, this was =
not

a commercial enterprise. In fact, it was a major nuisance to me, the =
Juneau

postmistress, Don Merz, the shipping department at Schiffer, Barry at
ER. I lost money by having to send out books Priority that were paid for =
BookRate in order to speed things up and get folks *lots of folks* over
250 totally boatanchor related reference works at *below* cost with no=20
profit to anyone. There hasn't been a single post on this subject in =
weeks.

Only essential info was sent and with minimum bandwidth. =

What is Jack's story? Why are we putting up with this kind of =
abuse from

someone who has collected \$5700 from us to demoralize what was once
a fine, friendly list. The QRM and disruption emanate from elsewhere.
I will send out the last batch of books Priority 100% at my expense.
And I don't appreciate his abuse of Bobbi and her cats. ER and every =

other

publication have published humorous posts on same subject. What has happened to our sense of humor, common sense, and civility?

I guess I'm outta here. Thanks for the memories (pre-Jack attack).

Jim Dillon WL7CMQ

beadgal@ptialaska.net

=20

From: Fire Bottle archive handler[SMTP:firebotl@jackatak.theporch.com]

Sent: Tuesday, June 04, 1996 11:03 PM

Subject: Book Deal Update: Moore Receivers....

Jim-

Evidently the message I sent the other day skipped your notice:

PLEASE do not run what looks like a commercial enterprise via the BA=20 list...

There are several people on the list who represent newsletters and=20 businesses that would benefit from using the list to advertise and=20 assist with their business ventures... they have restrained from=20 cluttering the list, and I am asking that you do as well...

You can certainly aim your email at those individuals who are=20 interested and keep the list clear of what have now become somewhat=20 annoying and too frequent transactions.

I would be happy to help with getting a file to the archives outlining=20 the best aspects of your business, but I think it is inappropriate for=20 you to abuse the list by broadcasting transaction details to everyone=20 who subscribes.

PLEASE hold off on this kind of post, as it is creating an atmosphere=20 that threatens to lead the list in a direction that will ultimately=20 generate a great deal of noise and disruption.

Thanks.

--

73

Jack, W4PPT/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! =
;^)

- - - BoatAnchor Mailing List Archiver/Owner - - -

firebotl@jackatak.theporch.com ---- listown@jackatak.theporch.com

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: pmills@cyberhouse.com (Phil Mills)
Subject: Re: Book Deal Update: Verbotten
Message-ID: <199606052143.QAA25894@ns.cyberhouse.com>

As you often say, Jack, lighten up. Mr. Dillon has been doing everyone a big favor by getting books at prices considerably reduced from the "commercial" rates....and, I think everyone on the list knows that he and everyone involved are not making anything out of it. They saved me and everyone else money on the Halli book. Sounds to me like you want everyone to spend the extra dollars with the vendors.....

thanks,
Phil

>Hello folks-
>OK, I've had it. As everyone but der ListFuehrer clearly knows, this was *not*
>a commercial enterprise. In fact, it was a major nuisance to me, the Juneau
>postmistress, Don Merz, the shipping department at Schiffer, Barry at
>ER. I lost money by having to send out books Priority that were paid for
BookRate in order to speed things up and get folks *lots of folks* over
>250 totally boatanchor related reference works at *below* cost with no
>profit to anyone. There hasn't been a single post on this subject in weeks.
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>
>Jim Dillon WL7CMQ
>beadgal@ptialaska.net
>-----

>From: Fire Bottle archive handler[SMTP:firebotl@jackatak.theporch.com]
>Sent: Tuesday, June 04, 1996 11:03 PM
>To: beadgal@ptialaska.net
>Subject: Book Deal Update: Moore Receivers....

>
>Jim-

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>who subscribes.
>
>PLEASE hold off on this kind of post, as it is creating an atmosphere
>that threatens to lead the list in a direction that will ultimately
>generate a great deal of noise and disruption.
>
>Thanks.
>--
>73
>Jack, W4PPT/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)
> - - - BoatAnchor Mailing List Archiver/Owner - - -
>firebotl@jackatak.theporch.com ---- listown@jackatak.theporch.com
>
>
>
>
>
>
Phil Mills, AB5TH
pmills@cyberhouse.com
713-992-5762

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: Norm Flasch <flasch@cushy.eecs.nwu.edu>
Subject: Re: Book Deal Update: Verbotten
Message-ID: <199606051955.0AA04553@cushy.eecs.nwu.edu>

Obviously Jim is not running a business here. I attended the Northland Antique Radio Society's swap meet this past weekend and saw the Hallicrafters book for \$29.95 and thought to myself that the list members who ordered from Jim Dillon really got a deal. Mine was delivered Priority mail for \$22.00! No profit margin here. This was a labor of love done in the best spirit of the group. This time I think Jack did not study the numbers.

My thanks to Jim, Don and all others who made this group purchase possible.

--

Norm Flasch flasch@eecs.nwu.edu Northwestern University
Electrical Engineering and Computer Science

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: Nick England <nick@cs.unc.edu>
Subject: Books for Boatanchorites
Message-ID: <199606051436.KAA06056@altair.cs.unc.edu>

Just got my copy of Moore's Transmitter book - many thanks to Jim Dillon for arranging this!

I had a great time on my initial browse through the book - even found out something on my WEB Jr. Clamper.

Things are really popping in the boatanchor hobby - we've gotten Chuck Penson's Heathkit guide, Marty Drift's collection of Heath ads, the Collins Collectors Guide, Chuck Dachis' Hallicrafters book, the Sound Values transmitter book and now Moore's Transmitter guide all in a relatively short period of time!
Is this a great country or what!!

What's next? - here's what I'd like to see: A transceiver guide similar to Moore's rcvr and xmtr books, and National, Hammarlund, and EF Johnson books - anyone know what's really in the works ????

have fun & 73,
Nick KD4CPL

Nick England nick@cs.unc.edu KD4CPL
<http://www.cs.unc.edu/~nick>

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: johnmb <johnmb@nando.net>
Subject: Re: Books for Boatanchorites
Message-ID: <Pine.SUN.3.91.960605112538.28722B-100000@bessel.nando.net>

On Wed, 5 Jun 1996, Nick England wrote:

>
> Just got my copy of Moore's Transmitter book - many thanks to Jim Dillon
> for arranging this!

I'll second the thank you for Jim. A fine job!

Is it just me, or does there seem to be more oddball vendors in the transmitter arena than in the receiver end of the market? Looking through the Moore transmitter book last night there are a bunch of SMALL companies that came and went over the years.

I guess it was just MUCH easier to manufacture and design transmitters than superhet receivers....

The Moore book is quite nice, although I wish it would have included VFO's!
/john

Vintage Ham Gear WWW site: <http://www.zynet.com/~johnb/>

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: joseph veras <jveras@wwisp.com>
Subject: Re: Books for Boatanchorites
Message-ID: <31B5D8CA.14C9@wwisp.com>

Nick England wrote:

> What's next? - here's what I'd like to see: A transceiver guide similar
> to Moore's rcvr and xmtr books, and National, Hammarlund, and EF Johnson
> books - anyone know what's really in the works ????
> Nick-

If I ever finish Herman's collection (I think Donna will tolerate one more photo session) then I can get to your place and finish up Knight, Heath and some others. That will leave only a few hundred (mainly pre-war and war surplus) radios to photograph. When finished, the book will have everything made by American ham manufacturers, including accessories, between 1930 & 1980 that I can get in front of my camera. All the equipment illustrations will be original photography similar in quality to that of the CQ vintage gear calendars. My publisher is talking about a December '97 release date.

A number of BA list members have already generously permitted photography of their gear. I'd like to take the occasion of this post to issue a general appeal to the list for equipment, especially things in those categories mentioned above. E-mail me with anything you have, however; I might need it.

Meanwhile, look forward to seeing you soon. The NC-400 really whetted my appetite!

73,
Joe Veras, N4QB

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: Nina West <ninaw@u.washington.edu>
Subject: Clough Brengle, What is it?
Message-ID: <Pine.A32.3.92a.960604212615.32105B-100000@homer30.u.washington.edu>

I also have a mysterious piece of equipment built by Clough Brengle. It is a Uni-Signal Frequency Modulator Model 111 and is probably a Sweep Generator. It has binding posts for RF Input and an odd output jack on the front panel and a cable with a four pin connector coming out the back. The workmanship inside is OK, but the front panel is nicely done in an embossed green.

If anyone has a manual, schematic, or helpful info on this unit I would appreciate hearing from you.

Another reference to Clough Brengle is in the 1958 Howard Sams Test Equipment Annual. An article about early test equipment shows a picture of a 3" Oscilloscope and mentions that it was the first to be offered on the service market and also served as a sweep generator.

Fred Powell
c/o
ninaw@u.washington.edu

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: Norm Flasch <flasch@cushy.eecs.nwu.edu>
Subject: Re: Clough Brengle, What is it?
Message-ID: <199606051352.IAA03704@cushy.eecs.nwu.edu>

Years ago while working for another company, I retrieved a 3' Clough Brengle 3" oscilloscope they were tossing. Tried it out and it worked fine. I later sold it for a few bucks. I recall it had the old 4/5/6/7 pin ST type tubes with shape conforming "goat" tube shields. Only about 4 or 5 tubes.

They also had a Clough Brengle PA amp that they did not want to get rid of. It also used the same vintage tubes with conforming shields. It appears they were in business for a few short years and made mostly test equipment.

--

Norm Flasch flasch@eeecs.nwu.edu Northwestern University
Electrical Engineering and Computer Science

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: Bill_Carns-R07670Q@email.sps.mot.com
Subject: RE>Collins 516F-2 100 ohm 2
Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>

Reply to: RE>Collins 516F-2 100 ohm 25 W res?

This is probably a dropping resistor that was added to the supply to compensate for using solid state rectifiers and to some degree, the increase from 110 to 125 V AC line voltage. If the solid state restifiers are still there, leave the resistor. If they are gone and using tubes (my pref) then pull it out and possiblly substitute a lesser value R of the proper wattage to compensate for the higher line voltage. In either case, after determining the type of rectifiers in use, and getting the resistor sorta right , measure the resulting Voltage and adjust accordingly. 100 ohms sound a bit high. It's usually closer to 67 ohms.

Hope this helps, Bill N70TQ

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: "James C. Garland" <garland@MPS.OHIO-STATE.EDU>
Subject: Re: Collins 516F-2 100 ohm 25 W res?
Message-ID: <01I5JRRFJ1GM8WW2T6@MPS.OHIO-STATE.EDU>

At 09:43 PM 6/4/96 -0500, you wrote:

>Greetings all -

>

>I just completed the inital clean-up/inspection of a 516F-2 power supply
>and noticed

>that there is a 100 ohm, 25 watt ceramic resistor mounted on the top of the
>rear, bottom

>mounting flange, which is attached to the chassis ground lug on one end and
>nothing on

>the other end. Before I fire this thing up, can anyone tell me if this
>resistor is

>supposed to be there and if so, tell me what it needs to be hooked to? Its
>proximity to

>the 5U4GB leads me to suspect it has some sort of regulator function, but
>without a schematic

>I have no way to know for sure.

>

>-df

>

>

>It's not supposed to be there. The only 100ohm resistor in the 516F-2 is the small (1/2 W) one that is in series with the selenium rectifier for the bias supply. A common modification is to replace the selenium rectifier (which is in a little cube that mounts to the chassis with a single stud) with a modern Si diode (e.g., 1N4007). In that event, the 100 ohm resistor is not needed and can be removed.

To check out the supply, I'd pull the tubes, short pins 5 and 7 on the end of the multiconductor cable (doing so will turn on the supply) and ramp the a.c. voltage up slowly. If you can monitor the a.c. primary current, it shouldn't exceed 200mA or so. Next measure the bias voltage (at the wiper on the bias adjust pot) and see if you can vary it over a range that includes about -80V. Next, plug in one the 5U4GB and measure the low voltage, which should be about 340V. Finally, plug in the 5R4 and measure the high voltage, which should be around 900 Volts. If the supply hasn't been used in years, then you could reduce the a.c. voltage to about 80Volts for a few hours before cranking it up all the way. (80Volts should be enough to bring the rectifier tubes to life.)

Note that the xfmr in the 516F-2 will get quite hot (even at no load), if you leave it on for several hours. This is normal behavior.

73,

Jim W8ZR

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996

From: JOHN_SEHRING.parti@ecunet.org

Subject: DRAKE STUFF CRYSTALS

Message-ID: <9606051616.aa23893@pcusa01.ecunet.org>

Had good luck with crystals for Drakes from Petersen, 2735 Avenue A, Council Bluffs, IA 51501. (Nice BA location, no?) 712.323.7539

Crystals ordered were .005%. Arrived 7-10 days, well within tolerance. \$7.50 @ plus \$1.50 shipping (less for multiple xtals). Ordered them by phone, he invoiced me, what a guy!

-John Sehring (06/05/96 12:22 pm MT @Baker, Montana) wb2eqg

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996

From: aa4rm%amos@mathcs.emory.edu (AA4RM's)

Subject: early ATL H'hfest BA sighting

Message-ID: <9606051756.AA01478@amos>

This weekend's Alt h'fest parking deck tailgate PA is a 1948 parade-ground AN/TIQ-2 with 3 LS103 OD reflex trumpets. Mic a T17.

It's sort of a tropicalized talisman to attract AN/GRC9s, etc. of the period.

Spkr.s like these appeared @ the HQ bldg. in most MASH episodes.

Anyone got a poster of Hot Lips H & Hawkeye??? How bout a ".au or a .wav" file of Colonel Bogey march.

Marty

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: Morris Odell <morriso@vifp.monash.edu.au>
Subject: For the Tek gurus
Message-ID: <199606052153.HAA24295@vifp.monash.edu.au>

Hi all,

Can anyone enlighten me as to the purpose and rating of the fuse (3AG size) soldered onto the component strips of a Tek 541A vertical amplifier?

Thanks and 73

Morris Odell VK3DOC Melbourne, Australia
morriso@vifp.monash.edu.au
<http://www.vifp.monash.edu.au/CFM/staff/mo.html>

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: "Terry O'Laughlin, RM:7135, #:6-6667" <OLAUGHLIN@vilas.uwex.edu>
Subject: FS: 30kw LF transmitter: \$35
Message-ID: <MAILQUEUE-101.960605172453.416@vilas.uwex.edu>

I just saw this thing at the University of Wisconsin, Madison SWAP (Solid Waste Alternatives Program) shop. It is about the size of three refrigerators. It was manufactured by some company in Milwaukee (Lepek?). The output meter reads 0-500 AMPERES RF! I peeked in the access panels and it has a large water cooled output tube, water cooled capacitor bank, and a watercooled silver plated tank coil. The power supply has six 872Bs (3 phase). The rig tunes from 160-450kHz. It includes the manual.

The components alone are worth \$35, but moving and storing it!

BTW: you're welcome to visit this loosely kept secret surplus center in Madison. It is open every Friday from 8am to 4pm. It is located at the dead end of West Mifflin (600 block, yes, the same infamous Mifflin Street of the 60s).

Be prepared for mayhem. There will be at least 50 people in line before the doors open. When the doors open, there is mad scramble unlike anything I've seen since my youthful days of church rummage sales with my mother in the 60s. Be forewarned: one week it is all XTs, one GR test set and a McCurdy broadcast console, the next week it will be ashtrays, fire extinguishers, and used shoes from the basketball team.

73 Terry O' WB9GVB

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: GASSY TUBES
Message-ID: <9606051616.aa23929@pcusa01.ecunet.org>

The Heath TT-1 proportional mutual conductance type tube tester uses an 18 megohm grid resistor to check for grid current.

The voltage developed across this high-value resistor is measured by a VTVM-type of voltmeter.

They suggest running the tube 'hot' during this test if you suspect gas, by enclosing the tube and/or running it at higher than rated filament voltage ('the amount of increase being left to the discretion of the operator'!!) to get its temperature up.

There is no scale to the grid current test on this tester as they state that any amount is to be considered as detrimental to the operation of the tube. I don't offhand know what a full scale reading would correspond to in terms of grid current.

-John Sehring (06/05/96 1:16 pm MT @Baker, Montana) wb2eqg

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: aa4rm%amos@mathcs.emory.edu (AA4RM's)
Subject: Re: Hamcomm to Atlanta
Message-ID: <9606050152.AA01261@amos>

Gary, hi

The Arrl gave Atlanta the same weekend as Hamcomm & we took it causa' the Olympics.

But we're in a new old site with a parking deck for tailgate & it looks like we'll set an attendance record in spite of the Lords of Newington.

In any case, best of luck...

Marty

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: "Randy Zelick" <RANDY@sbii.sb2.pdx.edu>
Subject: how much ripple v2
Message-ID: <2C6B34707A@sbii.sb2.pdx.edu>

Hi Ho

thanks the many who responded with suggestions

about the Drake 2B ripple problem,

And the winner appears to be....(you will know who you are)

Last night I explored and discovered that the culprit appears to be the 8BN8.

I did not measure the ripple in the power supply - it was suggested that this was unlikely to be the problem, and anyway could be better judged by bridging with another cap.

I did the bridging experiment and sure enough, no difference in hum.

In fact there are three sources of hum:

1. There is a volume-dependent hum which grows loud only near full volume. This I will accept as inevitable in a tube circuit when there is lots of gain.
2. If you pull the audio output tube, of course there is silence (control condition). But if you pull only the 8BN8 audio driver (also is bias rect and noise limiter) with the audio output tube in place - there remains only a very small amount of residual hum (of course not volume-control dependent). To be heard you must put your ear up to the speaker. This I will also consider to be unavoidable.

If you pull *only* the two detector tubes feeding the 8BN8, (V6 and/or V7) big hum returns.

Thus the hum is being generated in the 8BN8 stage rather than being fed into it.

Finally, I pulled only V6 & V7, and disconnected C53, the 0.005 microfarad cap feeding the audio output tube from the 8BN8 triode section (audio amp) plate with the result that the hum disappeared. Thus the 8BN8 was not generating hum merely by its presence which was then indirectly coupled to the audio amp.

Since the hum with V6 & V7 removed is *not* volume control-dependent, and given the above tests, it seems very likely that the hum is generated internally in this tube.

Today I will order a new one and try a swap in a week or so when it arrives.

Stay tuned for the next installment of hum wars.

=Randy=

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: "John Goller" <k9uwa@cris.com>
Subject: Local has BA's to sell
Message-ID: <199606051333.JAA27965@darius.cris.com>

Hello....local has several BA's for sale....don't really know this guy but he had an ad in local peddlers post buy/sell/trade so called him!! Think his prices are a bit high....but not sure what going rates are?? Call Him not me

Allied Receivers:

A-2515	\$225
AX-190	\$150
SX-190	\$150

Heath Xmitters:

DX-60a with VF0	\$175
DX-60b	\$150

Johnson:

Challenger (2)	\$150 each
Ranger II w/spare tubes	\$300
250 watt matchbox w/meter	\$150

Globe Scout Matchbox \$100

some QRP stuff

for sale by KA9SLX Brian Howard
1226 E. Lewis St
Ft Wayne, IN 46803

1-219-424-1298

I am not representing this equipment....just passing the info along
buy be ware.....good luck de JOHN K9UWA

ps: any Zenith Black Dials or other Radios you don't need
cluttering up your BA Shack?? if so....I am interested in them!!

John K9UWA

k9uwa@cris.com

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: Sandra L Knepper <slkst29+@pitt.edu>
Subject: Military Preservative
Message-ID: <Pine.3.89.9606051848.A23381-0100000@unixs3.cis.pitt.edu>

Can anyone tell me the correct composition of the chemical preservative
that was used to preserve military radios of WWII fame. The coating is
somewhat yellowish and looks very durable on components. Can this
material be bought from a supplier? I see this same preservative on
Collins R-388 and R-390 receivers.

Thank you.

Dave, W3BJZ
Publisher of the monthly Collins Journal

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: "Randy Zelick" <RANDY@sbii.sb2.pdx.edu>
Subject: more on shipping
Message-ID: <2B4AFC29F3@sbii.sb2.pdx.edu>

Hi Gang,

At the risk of beating a dead horse, I would add one more comment to the thread on packing and shipping fragile BAs. I waited to hear from the recipient of my 75A4 before mentioning a new organization I tried; indeed they delivered as promised, so here is the story-

I needed to pack up a 75A4 to ship, and of course was very concerned about it arriving in good shape. Now it so happens that I have a large, very sturdy old military transit case. It is a tough plastic clamshell affair with one hinged side and two thumb clamp closures on each of the other three sides. The interior is fitted with foam panels and has a central rectangular cut-out which needed only slight trimming to swallow exactly the 75A4. Such a shipping container could not be a better protected environment for shipping a fragile but heavy device, and I was eager to give it a try (not to mention saving all the time finding bubble wrap, dual boxes, etc).

The outside dimensions are approximately 30 x 30 x 22 inches and so I got everything set and called UPS. Sorry, their limit is 130 inches ($L + 2H + 2W$) and my case comes out to 134 inches. So I asked if that was close enough and was told by three different UPS agents, quite rudely, that even a fraction of an inch over the limit will disqualify a package, and further they have no provision for attaching a surcharge to deal with a slightly oversize package.

Just the sort of arrogance you expect when there is insufficient competition!

Like some others on the net mentioned, I tried about eight other trucking companies, but all were set up to handle either (1) very large loads and therefore had minima in the \$300.00 range or (2) competed only in the overnight express business, in which case they were charging around \$150.00 or more. Parcel post was out of the picture for both size and weight considerations. Others were ruled out, even if I wanted to pay the huge fees, because they would not insure the item. Finally Greyhound looked like the best deal at \$118.00, but the recipient would have to go pick it up, and when I called back to confirm the price, a different agent had a different story about cost and time for delivery (like up to 2 weeks - yuk!). This did not inspire confidence.

These costs were painful, since the estimate I got from the UPS web page, should the package have fit, was about \$50.00.

Finally I stumbled on an organization called Air-Go. They were extremely courteous and helpful, have residential pick-up if needed, will label and put fragile stickers on for you if desired, insurance up to any reasonable amount was not a problem, nor was size. They did charge more (\$85.00) but the receiver was sent on Friday and arrived 2000 miles away on Tuesday - much faster than UPS unless they shipped by air, in which case they would have charged over \$120.00. Finally Air-Go delivers to residences with no additional charge.

So with an admittedly small sample size (1) I would encourage y'all to try Air-Go for things which need to move relatively quickly and which UPS won't deal with.

Cheers,

=Randy=

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: BSHECK@NIMUE.HOOD.EDU (Bob Sheck)
Subject: Re: more on shipping
Message-ID: <01I5JW021QIA001A1K@NIMUE.HOOD.EDU>

Randy wrote <<Snip>>

>Finally I stumbled on an organization called Air-Go. They were extremely
>courteous and helpful, have residential pick-up if needed, will label and put
>fragile stickers on for you if desired, insurance up to any reasonable amount

<<SNIP>>

Air freight may be the best way to ship heavier/bigger than UPS stuff.
Last time (in 1990) I had to ship a bunch of stuff I used Emory.
They didn't care what it was, it was all \$0.11 per pound! Yes, they
delivered right to the addressee's door.

Most all air freight travels *between* air terminals in trucks,
btw (unless it's transcontinental or international).

Also this method is known as less-than-load (LTL).

Bob

--> Nuclear Families _DO_ Glow in the Dark! BSHECK, ME-SHECK, abednigo!
BSHECK@NIMUE.HOOD.EDU -----==The Shekinator==----- (301) 696-3928
Hood College Department of Computing Affairs / PC & Network Support Specialist
401 Rosemont Ave. Frederick, MD 21701-8575

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: "D.D. Todd" <dube3@n-link.com>
Subject: Old mags for sale
Message-ID: <31B51FE8.6140@n-link.com>

Cliff, please provide another address. My attempt to purchase magazines resulted in this bounce:

Subject:

Returned mail: User unknown

Date:

Sun, 2 Jun 1996 15:24:12 -0500

From:

Mail Delivery Subsystem <MAILER-DAEMON@n-link.com>

To:

<dube3@n-link.com>

The original message was received at Sun, 2 Jun 1996 15:24:09 -0500 from mserver11 [206.97.138.50]

----- The following addresses had delivery problems -----
<Cliff.Blakey@dns.cyberlink.bc.ca> (unrecoverable error)

----- Transcript of session follows -----
.. while talking to dns.cyberlink.bc.ca.:
-- RCPT To:<Cliff.Blakey@dns.cyberlink.bc.ca>-- 550
<Cliff.Blakey@dns.cyberlink.bc.ca>... User unknown
550 <Cliff.Blakey@dns.cyberlink.bc.ca>... User unknown

----- Original message follows -----

--

73,
Dube Todd AB5AP dube3@n-link.com

If we had to tolerate in others all that we permit in ourselves, life would be completely unbearable.

- Georges Courtelline

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: "Daniel F. Stiles" <Daniel_F._Stiles@inetgate.usmmm.org>
Subject: packing (new idea maybe)
Message-ID: <9605058339.AA833994220@inetgate.usmmm.org>

I am shipping 2 radios to Jim Munzer at Antique Elec. in Tempe and am going to try new idea (at least for me) maybe some of you have tried it please let me know as I will ship tom (Thursday)

The radios are: Heath SB303 Rcvr approx 15 lbs
Heath SB 401 TX approx 25 lbs

My idea is to pack each in its own box tightly with peanuts.

In the outer box, I plan to squirt about an inch of expandable home insulating foam in the bottom then place the first box on the foam. Spray some more in around the sides and top then place the second box. When the second box is in place, again spray down the sides and top.

I will let it expand then trim the top off with a saw so the box will seal.

If all goes as planned, the shipping container will be solid foam on the inside with the radios in their "pods" cushioned by the peanuts.

A can of this spray foam costs 3 or 4 dollars depending on the brand. I guess if you wanted to save the boxes, you could wrap the inner ones in plastic and then place a large plastic garbage bag inside the outer box. I doing neither figuring the waste of the cardboard boxes is cheap insurance to make sure the radios get there in the same condition they were shipped.

Please let me know any thoughts the rest of you might have and if you know Jim as I am sure many do, ask him how they arrived. I will followup on that also and post to the group.

Thanks es 73
Dan, KB1BG

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: jkh@lexis-nexis.com (John Heck)
Subject: Re: packing (new idea maybe)
Message-ID: <9606051449.AA24789@beans.lexis-nexis.com>

I also gave this some thought. My impressions with using this stuff as a foam insulating material is mixed. It is very, very sticky. It expands for a long time and somewhat more than the instructions suggest. It will take paint off and is so adhesive that it is just heck to get it off of anything, even polyethelyne. When cured it is very difficult to cut or saw, it can be done but the results are rough. I would use this around any-thing valuable with considerable caution. Unlike the packing foams which seem to cure up to a kind of dry brittle foam, the insulating foam seems to stay much more flexible and tough, and it is really tough, too. Let us know how you do with this.

> In the outer box, I plan to squirt about an inch
> of expandable home insulating foam in the bottom
> then place the first box on the foam. Spray some
> more in around the sides and top then place the
> second box. When the second box is in place,
> again spray down the sides and top.

> I will let it expand then trim the top off with a
> saw so the box will seal.

> Thanks es 73
> Dan, KB1BG

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: "Terry O'Laughlin, RM:7135, #:6-6667" <OLAUGHLIN@vilas.uwex.edu>
Subject: Princeton, IL Hamfest
Message-ID: <MAILQUEUE-101.960605164718.1248@vilas.uwex.edu>

I meandered down to this fest with Tom Adams last Sunday. I didn't see his report because that e-mail digest was truncated here. Hopefully, I won't duplicate his posting.

For starters, it rained all day Saturday. Sunday was hot and sunny but the ground was so sodden that it didn't dry up. I haven't been to this fest in a few years, but the regulars say that weather the day before the fest substantially reduced the number of sellers. The

grounds were a sea of mud by 7:30am.

The Princeton Swapmeet was thoroughly enjoyable. I've been on the big city (Milwaukee/Chicago) hamfest circuit so long, that I've forgotten how pleasant a small, largely rural hamfest can be.

I bought the first radio I saw, a Collins R-390. The owner had inherited from a friend. It was missing the meters and the 26Z5s. The line audio meter control had been removed. A toggle switch labelled "AM - SSB" had been stuffed into the line audio level position. A gray metal plate was glued over the carrier meter hole with an absurdly small meter mounted in the center. The back panel had "spkr 8 ohm" over the local audio terminals and an ominous "do not use" scrawled above the twinax connector. Finally, the remote and power connectors had been filled with silicone bathtub caulk. I tagged it as a parts radio, but it was very clean and had all of the major pieces. The asking price was \$75. I got it for \$40. (see "coda" for the rest of the story)

Other gear spotted (from memory):

SP-600	\$130	one of the diversity models, with non-original knobs on the int/ext HFO control and a brass plate over the original crystal unit holes engraved with "Northern Radio Labs... At least it was in the original case. (didn't sell by noon)
T-195/R-392	\$300	with mounting rack and all cables, looked real pretty and the owner claimed that it worked "excellently." (if you can stand the howling T-195 blowers and dynos) (didn't sell)
BC-375	\$400	with dynamotor, cables and a set of coils, looked very good, but that price!!! (didn't sell)
HQ-120	\$75	beautifully restored exterior, interior good, some corrosion on chassis. (didn't sell)
HQ-129	\$125	nicely restored exterior, interior good (didn't sell)
NC-100	\$35	rough but complete and restorable (sold early)
HRO	\$25	very rough, early unit, no top cover on cabinet (hinges broken), one coil with funky chart that I couldn't read. (sold mid-morning)
R-274/SX-73	\$250	fair, resprayed front panel with boxes where original silkscreened labels were masked off, three non-original knobs, dial lock missing, switch added in upper left corner, first one I've ever seen in the metal (sold before it left the seller's vehicle)
SX-28	\$30	fair, non-original hole in front panel, no case,

		brass plate with an engraved W4 call bolted to center of front panel (sold, early morning)
KWM-2	\$600	clean, didn't look close, doesn't interest me (didn't sell)
S-line	\$1650	75S-3, 32S-1, speaker box, accessory box, don't know numbers & don't care (didn't sell)
NM-20	\$75	Stoddart field strength meter, no supply, clean (didn't sell)
BC-312	\$90	very rough, lots of loose internal wires/parts (didn't sell)

There were many other pieces of Heathkit gear (DX-100, SB-301, things of that ilk) as well as National and Hallicrafters. I was too busy looking for military surplus gear and parts that I didn't pay much attention to the civilian boatanchors.

The big surprise of the fest was the plummeting prices for solid-state gear. Before I saw the light, I hankered after this mega buck silicon stuff. At this fest, I saw: Icom R-70 - \$325, Icom R-71A - \$425, Kenwood R-5000 - \$500. It is gratifying that boatanchors are increasing in value while plastic/silicon boxes are dropping.

Coda:

When I got home I plopped the R-390 on the bench. In spite of all the dire external signs, there were surprisingly few internal mods. The seller told me "it worked when I plugged it in last year." Been there, heard that, tell me another.

I stuffed some 1N4004s in the 26Z5 sockets and, like a fool, I plugged it in. It hummed, I heard static, the B+ fuse blew. I put another fuse in. The radio hummed, I heard a station, smoke began to curl out from under the radio.

Between the hum and the B+ fuse blowing, I suspected the regulator section on the AF deck. I pulled it and found a cracked 47 ohm 2w resistor. While I was replacing it, I spotted the fatal cause. Some bonehead had jammed one of the 6082s into its socket with the pin index misaligned. This wasn't a tube with the bakelite center index cracked off! It was complete! I pulled the tube out, rotated it to the correct position and reinserted it. Now I know why the radio came without 26Z5s. Somebody blew them up!

I turned the radio on and it played but I couldn't find any recognizable stations. I finally stumbled across WWV at 14+602, then at 9+602, and 4+602. I pulled the black cover off the veeder root display unlocked the collar on the gear, tuned in WWV and reset the dial. I then checked the calibration over each 1 MHz band and found

the worse case to be +700Hz high at the top end.

I have no idea how the counter dial could have been so far off while the radio was still in decent alignment. The guy jammed a misaligned 6082 into the socket was capable of some serious mayhem. Fortunately, he didn't dig too far into this radio.

Now I have a nicely functioning, reasonably calibrated R-390 for \$40. The icing on the cake is, that whatever SSB mod a previous owner had installed, it works great. I'll have to pull the IF deck and trace it out. I bought this radio as a parts unit for another R-390 I'm restoring. Now that it plays, the rolls are reversed. I'll be stripping the one I already have.

Princeton, IL. I'll be back.

73 Terry O' WB9GVB

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: "Ray L. Mote" <rmote@rain.org>
Subject: Re: R-174/URR help needed
Message-ID: <Pine.SUN.3.93.960604232652.26266F-100000@coyote.rain.org>

R-174/URR is better known as the AN/GRR-5. I used 'em in the Marine Corps in the early sixties & they made life a bit easier listening to AFRTS from Okinawa, etc. You should be able to get manuals from Tartan Electronics out in Tucson AZ -- call Gene at (602) 577-1022. Fair Radio also carries 'em, I believe. Most common problem is the copper oxide rectifier stack in the PP-308 power supply/audio amp. Next after that is the buffer capacitor on the power transformer -- when it goes, it takes the transformer with it! Even if you use 110VAC, that supply insists on producing DC, feeding it to a vibrator, and feeding that to the transformer to produce high voltage. Not exactly optimal for home use. You'll generally find the set described as "receiver works, but the power supply is dead". Now you have another hobby -- repairing the PP-308.

73.....Ray Mote, W6RIC <rmote@rain.org>

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: Richard Post <POST@ouvaxa.cats.ohiou.edu>
Subject: Re: RCA Chanalyst info
Message-ID: <A3224ZWIIHOPN6*/R=OUVAXA/R=A1/U=POST/@MHS>

Henry van Cleef wrote:

>> Still looking for information on the RCA Chanalyst Short Wave
>> Converter. Tube complement is 6AC7, 6SJ7, 6SA7, and 6X5.
>>
>> Anybody have one of these?
>>

>I've never seen such a device.

>My method when dealing with "off-the-wall" can't findem schematic
>devices is to spend some time with my trusty VoltOhmyst on ohms ringing
>out the circuit. It's a little more difficult when you've got "mods"
>and "repairs," but there are just so many circuits that can be used for
>this type of thing.

snip

>whether the 6SJ7 serves as a local oscillator. I
>think one would only have to examine three or four wires to make that
>determination. If the 6SA7 is self-excited----which is not too neatsie
>keen for anything over about 18 Mhz, then I'd expect the 6SJ7 to be an
>output buffer.

Good advice on tracing out the circuit. Have done this many times. You must have missed an earlier post on this when I explained this information was for a W8... friend, that it had missing components and probable modifications, that I had found a workalike schematic in the RME DM-30X, and that I had not seen this device as yet. The DM-30X uses an 1852 as RF amp, a 6C5 as the oscillator, and 6SJ7 as mixer. The Chanalyst goes to 80 mHz so I concur with your analysis that a 6SA7 functioning as a mixer needs an external oscillator. Without a schematic or a quick look at another unit, I can only assume that the tube complement is indeed correct and not itself the result of a "modification". When I see the device, I will use Jack Darr's favorite test equipment to try to determine what's what and what should be (he coined the term "well-calibrated eyeball"). Another BA list member has indicated a possible source for a manual so I will follow up to the list when we get more information.

73 de Rich <rpost1@ohiou.edu>

Stay tuned for more "Electrons in Space".

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: "L. Mark Pilant - MS:ZK03-4/Y02 DTN:381-1529" <pilant@seesaw.UNET.dec.com>
Subject: Seeking information about an SG-298/U
Message-ID: <9606051250.AA15402@us2rmc.zko.dec.com>

Well, never being one to pass up a piece of test equipment :-) :-)

I recently picked up a sub-audio/audio signal generator. From the ID tag,

Generator, Signal SG-298/U
Serial number 30
PARABAM, INC.
Order 4319-pp-61

This generator appears to be capable of generating frequencies from .008 Hz to 2000 Hz. (I thought there might be a missing multiplier marking, but it really does go down that low. Although I'm not sure how useful I'll find those frequencies.) In addition, it has sine, triangle, and square waves as output.

First order of business is to put a proper grounded power cord on the beast. The current two-wire cord is fine outside the unit, but inside after the strain relief the insulation is falling off the wires...not good...but easy to fix.

Now for my questions:

- 1) Does anyone know any more about this piece?
- 2) Anyone know where I might obtain a copy of the schematic, maintenance manual, and/or operating manual?

and since there is at least one bad cap in the power supply...

- 3) Does anyone know a source for the can electrolytics which are held in by a large threaded nut? (As opposed to the twist tab FP style.) The ones in this unit are made by Mallory, but I couldn't find anything similar in my Allied, AES, or Newark catalogs.

Thanks in advance.

- Mark N1VQW

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: "Roberta J. Barmore" <rbarmore@indy.net>
Subject: Shipping/spray foam
Message-ID: <Pine.SUN.3.91.960605135227.305C-100000@indy2>

Hi!

Quick note on using hardware-store spray-can insulating foam:

A) The most common, least expensive type burns pretty easily and produces toxic gas. Might not be accepted by the air freight outfits.

B) It *is* wretched stuff to try to get off whatever it sticks to.

Most solvents that will get it off take the paint off, too.

C) There are several variations. Some are "fireproof," some expand less, etc. Be careful, the most-expanding stuff could be trouble around a bagged boatanchor--meter glasses, dial glasses, etc, might get crunched.

D) Seems to take awhile to set up. Flows a lot while so doing. For double-boxing, the inner box will be needed to get the "walls" to stay put.

For shipping, I would suggest the fire-rated version, between double boxes. I would not use it next to the gear. YMMV.

I have been using this stuff to close up the hole in the wall where all of the big TV transmission line, microwave waveguide, heliax, etc. enters/leaves the TV transmitter building. What I have been using is not fire-rated (oops), so it'll be coming out on the final redo in the renovation. It's frustrating stuff to close up a large hole in a vertical wall with, requiring several layers. It's not bad for a single line through a hole big enough to clear the connector, and the fire-rated stuff would be FB for a ham coax feedline. (Probably better than a UHF "bulkhead" connector--they're not weatherproof, which is why the commercial sealing-up gunk sells well. Type Ns are, btw, and even 'way high on Midwestern towers, a mere wrapping of black tape keeps them unscrewable).

Don't know what the foam like at RF--for open-wire lines, it might be problematic. (I'm fond of feedthrough insulators, though you can still get the "tubes" for tube & knob AC mains wiring and run continuous wire). It does not seem to react chemically with copper or PVC insulation.

It won't weather well unless painted, btw.

73,

--Bobbi

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996

From: midshires@cix.compulink.co.uk (Andrew Emmerson)

Subject: Telephone supplies

Message-ID: <memo.962461@cix.compulink.co.uk>

I cannot say if any or all of these people sell gongs but this is a list of suppliers in North America, extracted from the _Sound & Vision Yearbook_ which I edit.

73, Andy G8PTH.

CARGILL TELEPHONE COMPANY (Cartelco), Box 1000, Cargill, Ontario, N0G 1J0, Canada (+ 1 519 366 2249). Warehouse full of old phones and spares,

mail order.

HOUSE OF TELEPHONES, 15 East Avenue D, San Angelo, TX 76903, USA (+1 915 655 4174). Free catalogue of antique and reproduction phones, with large range of spare parts, cords,, etc.. Visa, Mastercard.

MAHANTANGO MANOR INC., Box 170, Dalmatia, PA 17017, USA. Quality reproduction telephones and replacement parts.

NEW WIRELESS PIONEERS. James and Felicia Kreuzer. Box 398, Elma, New York, NY 14059, USA (+1 716 681 3186). Rare books on early telephones and telegraphs. Catalogues issued.

PHONECO, PO Box 70, 207 East Mill Road, Galesville, WI 54630, USA (+1 608 582 4124). Legendary assembly of old telephones, more than the eye can possibly count. A 'must visit' place by all accounts.

Personally, I'd try Ron Knappen at Phoneco and Bruce Crawford at Cartelco first!

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: Guy Dragoo <gdrag@proedge.com>
Subject: Texas Hamcom / dinner get-together
Message-ID: <01BB52BD.B5F5C4E0@ft314.computek.net>

Howdy Anchorites and Anchorette(s)?;

The third time is the charm (I hope). I am having all sorts of problems = getting the list to take this message. Here goes again...

Well Hamcom 96 is close upon us now and those of you wishing info on the = fest can view it at: <http://www.netbelay.com/~hamcom/>
This site has allot of interesting info including info on Hotels, etc., = for out-of-townners.

For those attending Hamcom on Saturday please feel free to come out to = Humperdinks for dinner et al. Ask for the Boatanchor reservation party. = I scheduled it for 6:00 and hope to see many guys and gals out (come on = out...they have lots of room and plenty of good food and drink). If the = XYL is in tow she will appreciate the dinner and if she isn't you'll get = to swap allot of good war stories <grin>.

Directions to Humperdinks (817-640-8553):
Exit Marriott (next to Arlington Convention Center) parking lot going = South on Convention Center Drive (AKA Stadium East Drive), proceed to =

first stop light which is Road to Six Flags; turn left and proceed East =
to the intersection of Road to Six Flags and Six Flags Drive. =
Humperdinks is on NE corner of the intersection.

Thanks and 73
Guy Dragoo AC5HL

PS I will be monitoring 144.670 simplex on Saturday morning when =
attending Hamcom. Please feel free to hollar.=20

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: bill@skeeter.frco.com (William Hawkins)
Subject: Wait a minute ...
Message-ID: <9606052053.AA16312@skeeter.frco.com>

Jim Dillon has exposed a raw nerve here. Good administrators are very hard to find, as are good contributors, so cut 'em some slack for a minute and look at what we've got here. This list has the highest signal to noise ratio of any I've ever seen, and that's because Jack _does_ speak up when the subject begins to stray. We all know we're gonna hear from him if we cross bounds that have been set for the list, and that we agreed to when we subscribed - no antenna threads, ARRL bulletins, or commercial postings. Just boatanchors and the occasional tube-type test equipment. No mailing list discussions, but shipping is OK. It's wonderful, but it ain't free.

The price we pay is dealing with boundary disputes. Most of the time we let Jack handle it. But every time a boundary is disputed, there are winners and losers, and some of the losers can get real unhappy. Seems like we need a higher court, to take the pressure off of Jack when things turn sour. Nobody has a perfect record when making decisions. As long as Jack's say is final, Jim can either shut up and simmer, or leave and take his unique point of view with him. Suppose he was able to appeal Jack's decision and call for a vote of the list. The result would be easier to deal with - for everybody.

Taking a vote is not easy. Jack shouldn't have to do it. Somebody would have to volunteer a mailbox and time to do it. Is this worth pursuing?

Bill Hawkins bill@skeeter.frco.com

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996

From: "Ian Abbott" <ian@gene.COM>
Subject: Wanted: Schematic or Manual for EICO 147 Signal Tracer
Message-ID: <9606050754.ZM10666@emerald.gene.com>

Hello-

I bought an EICO model 147 signal tracer at the Livermore, CA swap meet last weekend; it's in great condition, and will go well with my old OS-8 'scope for troubleshooting Boatanchors.

Does anyone have a schematic, or better yet a manual for this signal tracer? If you've got one, I'd gladly pay copying charges, postage, and something for your trouble to obtain a copy for myself.

Thanks!

Ian Abbott

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-----> THIS MESSAGE MADE FROM 100% RECYCLED ELECTRONS <-----

Ian E. Abbott		abbott.ian@gene.com	{~.~.~}
Genentech, Inc.		Voice: 415.225.1793	_(Y)_
Fermentation/Product Recovery		Pager: 415.655.9160	(:_~*_:_)
Information Systems Group		Fax: 415.225.5947	(_)-(_)

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
From: Rick Carlund <carlund@primenet.com>
Subject: WTB "6N2" parts unit
Message-ID: <2.2.32.19960605223008.006737ec@primenet.com>

Greetings all,

I'm looking for a junker Johnson "6N2" for parts to restore another one I have. Also, looking for a 2 mtr receiver converter, preferably with a nuvistor front end.

Thanks
73,
Lock, KB7TQ
carlund@primenet.com

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*****
*Lord grant me                               *
*  the serenity to accept the things         *
*      I cannot change,                      *
*  the courage to change the things          *
*      I can and                             *
*  the wisdom to hide the bodies of          *
*      those people I had to kill because    *
*      THEY PISSED ME OFF!                   *
*****

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From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
 From: Bill_Carns-R07670Q@email.sps.mot.com
 Subject: WTB Collins Tube(s)
 Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>

	Subject:	Time:9:11 AM
OFFICE MEMO	WTB Collins Tube(s)	Date:6/5/96
Does anyone have or know where I can get a Collins boxed tube ??		

Thanks, Bill N70TQ

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
 From: "Lahlum-FLR111 Ross" <ross_lahlum@msmail.wes.mot.com>
 Subject: WTB: 4,6,7/48 QST
 Message-ID: <9606050742.AA07613@kay.wes.mot.com>

Looking for copies of the April, June & July 1948 QST, specifically for
 articles pertaining to "Exalted Carried SSB Demodulation". These articles
 describe the theory behind the Central Electronics Signal Slicer. Anybody have
 spare issues they want to sell, or willing to copy the articles for costs + a
 couple extra bucks?

Thx es 73,
 Ross KB9JJR
 ross_lahlum@msmail.wes.mot.com

From boatanchors@theporch.com Wed Jun 5 18:49:33 1996
 From: dma@IslandNet.com (Jan Skirrow)
 Subject: WWII German Tubes Available
 Message-ID: <m0uRNqv-000W80C@comm.amtsgi.bc.ca>

Hi Guys ...

I noticed that W.J. Ford is listing a bunch of WWII German tubes. I know some BAites may be interested. So, look at Fords web page. Prices seem reasonable for what must be fairly hard to get items. And, of course, the prices are in "bargain basement" Canadian \$\$.

BTW his web site has moved to:

<http://www.falls.igs.net/~testequipment/>

Jan Skirrow, VE7DJX
dma@islandnet.com

From boatanchors@theporch.com Wed Jun 5 12:44:02 1996
From: Rick Blank <rblank@legend.txdirect.net>
Subject: Yaesu FT-401B Information
Message-ID: <1.5.4.32.19960605041903.0068c990@txdirect.net>

The FT-401B in it's American version uses a pair of 6KD6's in the final and will put out 300 watts or so, on 75m...it's 500, 550 watt input rig.

I do like the way it looks and it's a pretty good radio for use on 80 thru 20 meters....I have never tried my predecessor to the 401B, the FTDX400, on 15 or 10, but it uses the same finals as the 401B out in the garage and is for all purposes just an earlier version of the radio. I have had good reports on the 400 on 75 and the receiver is pretty decent...

I know this is going to sound like heresy, but, it's at least as good if not better than the Hallicrafters or Swan radios I have. For instance it has a 1kHz dial readout that is very linear across the band (at least for as old a rig as it is, it's nearly in league with the KWM-2A linearity, but I have seen used -2(A)s with more error than the FTDX400 has). It's got a lot of handwiring that was done by underpaid labor but works well. The Hallicrafters SR-400A is straining to put out 275 watts, but, on the same wattmeter the Yaesu puts out a little more than 300 (on 75). The filter bandwidth seems a little tighter than the SR-400's in it's ultimate rejection, but, still a bit more gentle than some of the newest rigs....the SR-400A's noise blanker, though, is better than the FT-990's and is the best one I have for removing noise even on 75m....I need to use that rig more! The SR-400A also has a notch filter that varies in it's effectiveness....

The Swan 600R-600T set has about the same output, but, the Yaesu has the 1kHz dial resolution while the Swan's have 2 kHz dials. I have yet to tame a parasitic oscillation in the 600T on 15m but one of these days....

The Yaesu also has a vernier drive on the plate tuning control which the Swan lacks...the 7360 balanced modulator used in both these rigs is better in the Yaesu than the Swan...much easier to balance out on the Yaesu.

The stock 600R has no noise blanker and only one filter width, 2.7kHz, that is a bit wide, but not too bad if the bands aren't too crowded. The 600-R Custom, though, addressed those with a 16pole narrow SSB filter, a CW filter, a noise blanker, and a couple of other refinements that I don't remember right now.

The Yaesu also has one accessory that the KWM-2 series never had from Collins...RIT, or as Yaesu calls it, a Clarifier; and a noise limiter that at least helps a little...the Collins, well, that was an accessory and needed tuning as you used it....PLUS the 401B can be set up with a CW filter that was a 600hz wide (if I remember correctly) maybe 700hz, filter which is a whole heck of a lot better than even the 2.1kc Collins mechanical filter on CW.

The FT-401B also has three auxiliary band positions that can be setup to work on the WARC bands, if one desires, the Swans, Hallicrafters, and KWM-2 (I know, NOT the -2A) had no easy way to add these bands without sacrificing the bands already installed.

All in all, the FT401B is a pretty neat, full of firebottles rig that really had a lot of neat features packaged into one rig. It's fairly stable, has good power output, a decent receiver and "creature comforts" that weren't always tied together in any other American transceiver of similar vintage. Keep the fan oiled and running well and don't run the bejeezus out of it and you should have a pretty neat standard of comparison.

Rick Blank, KI5SL
2223 Blanco Road
San Antonio, Texas 78212

rblank@txdirect.net
KI5SL@K3WGF.STX.USA.NOAM
AMSAT NA#26195